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Claims:

1. A formula feed for administration to a human or animal, the formulation including active xanthine oxidoreductase (XOR).

2. A formula feed according to claim 1, which includes at least $50\mu g/ml$ active xanthine oxidoreductase.

3. A formula feed according to claim 1 or claim 2, in which the concentration of XOR exceeds the normal physiological concentration of XOR.

- 4. A formula feed according to any one of claims 1 to 3, which includes up to $500\mu g/ml$ active xanthine oxidoreductase.
- 5. A formula feed according to claim 4, in which the 15 formulation includes from 50 to $150\,\mu\text{g/ml}$ of XOR.
 - 6. A formula feed according to any one of claims 1 to 5, in which the formulation includes buttermilk, the buttermilk including active XOR.
- 7. A formula feed according to any one of claims 1 20 to 6, in which the formulation is in liquid form.
 - 8. A formula feed according to any one of claims 1 to 7, the formulation further including one or more electron donors.
- 9. A formula feed according to any one of claims 1
 25 to 8, the formulation further including one or more electron acceptors.
 - 10. A formula feed according to any one of claims 1 to 9, which is suitable for feeding a human infant.
- 11. A combination product for use in the preparation
 30 of a formula feed according to any one of claims 1 to 10,
 in which the product comprises two separate portions, the
 first portion including active XOR and the second portion

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being sterilised and comprising substantially no active XOR.

12. A combination product according to claim 11, in which the second portion is in the form of a powder.

- 13. A combination product according to claim 11 or claim 12, in which the second portion has been heat treated.
- 14. A combination product according to any one of claims 11 to 13, in which the first portion has been pasteurised.
- 15. A combination product according to any one of claims 11 to 14, in which the first portion is in a first container, and the second portion is in a second container.
- 16. A composition for use in the treatment of gastrointestinal infection, the composition being suitable for addition to a formula feed, and the composition comprising active XOR in combination with one or more electron donors and/or one or more electron acceptors.
- 17. A composition according to claim 16, the composition comprising buttermilk.
- 18. A composition according to claim 16 or claim 17, the composition being in the form of a powder.
- 19. A method of making a formula feed, the method comprising the step of adding a composition comprising active XOR.
- 20. A method according to plaim 19, the composition being according to any one of claims 16 to 18.
- 21. A method according to claim 19 or claim 20, the method comprising the steps of:
- a. preparing a first portion of the formula feed, comprising a composition including active XOR; and

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- b. preparing a second portion of the formula feed, the first portion and second portion being separate from each other for subsequent mixing to form the formula feed.
- 22. A method according to claim 21, in which the first portion comprises lyophilised buttermilk.
 - 23. A method according to claim 21, in which the first portion comprises buttermilk that has been spraydried at a temperature which is so selected that the activity of the XOR is at least substantially retained.
 - 24. A method according to any one of claims 21 to 23, in which the first portion has been subjected to a heat treatment step in which its temperature does not exceed 65°C.
 - 25. A method according to claim 21 or claim 22, in which the second portion comprises a sterilised feed composition.
 - 26. A formulation for use in the treatment of gastrointestinal infection, the formulation being suitable for administration as a feed and including active xanthine oxidoreductase.
 - 27. Use of active XOR in the treatment of gastrointestinal (GI) infection.
 - 28. Use of active XOR in the treatment of Scours disease.
 - 29. Use of active XOB in the killing of bacteria.
 - 30. Method of feeding a patient with enteral feed, in which the enteral feed includes active XOR.
 - 31. Method of feeding an infant with formula feed, in which the formula feed includes active XOR.
- 30 32. A formulation comprising XOR substantially as described in Example 1 herein.

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33. A formulation for use as a bactericidal agent in the human or animal digestive system, the formulation including active xanthine oxidoreductase (XOR).

- 34. A feed formulation according to claim 33, which is suitable for use as an enteral feed.
- 35. A feed formulation according to claim 33, which is for use in the treatment of Scours disease.

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AMENDED SHEET